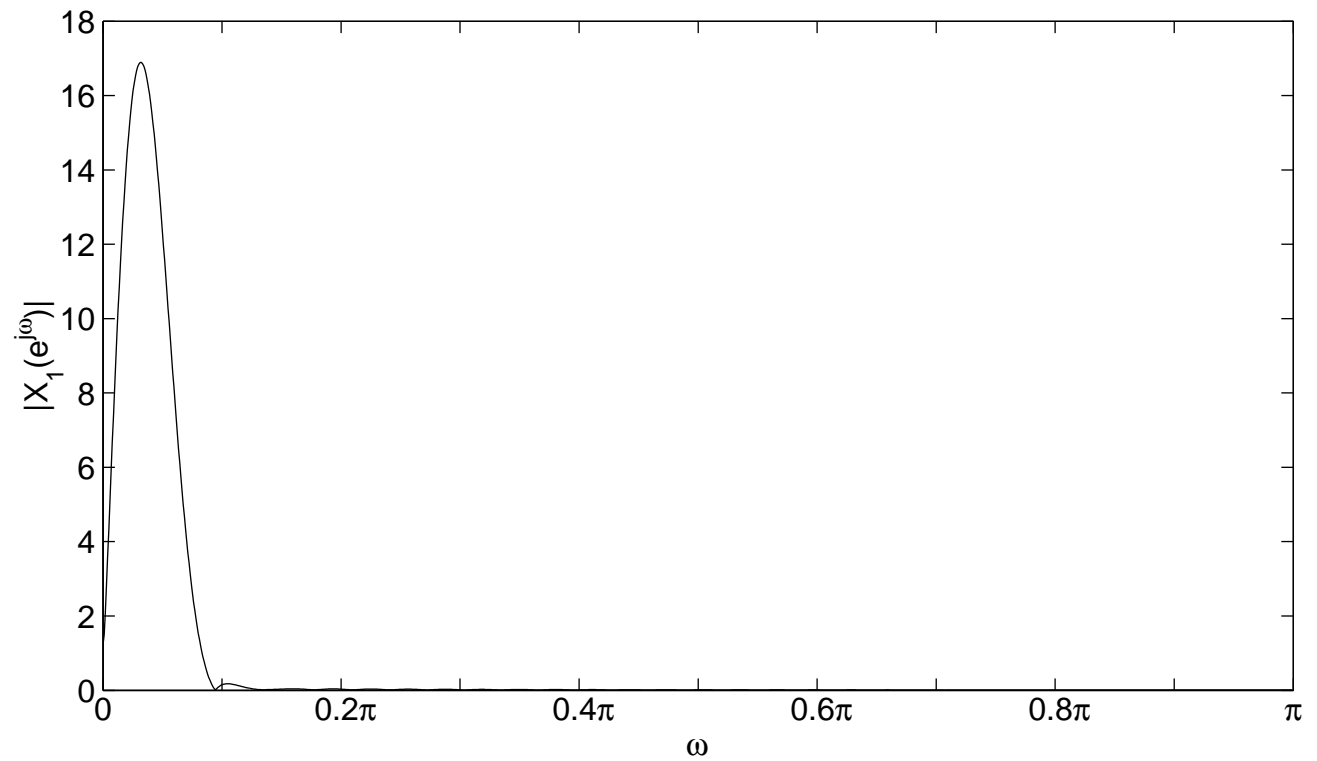
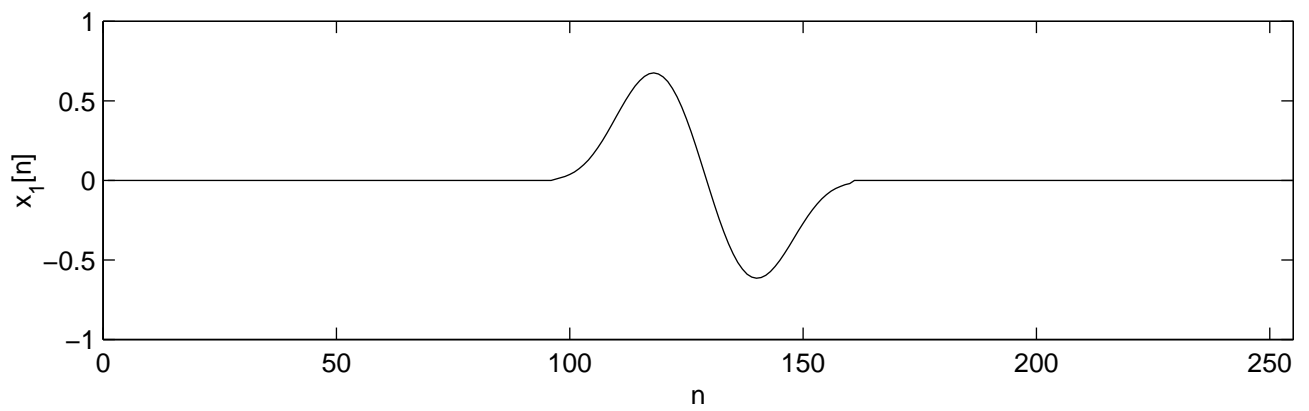
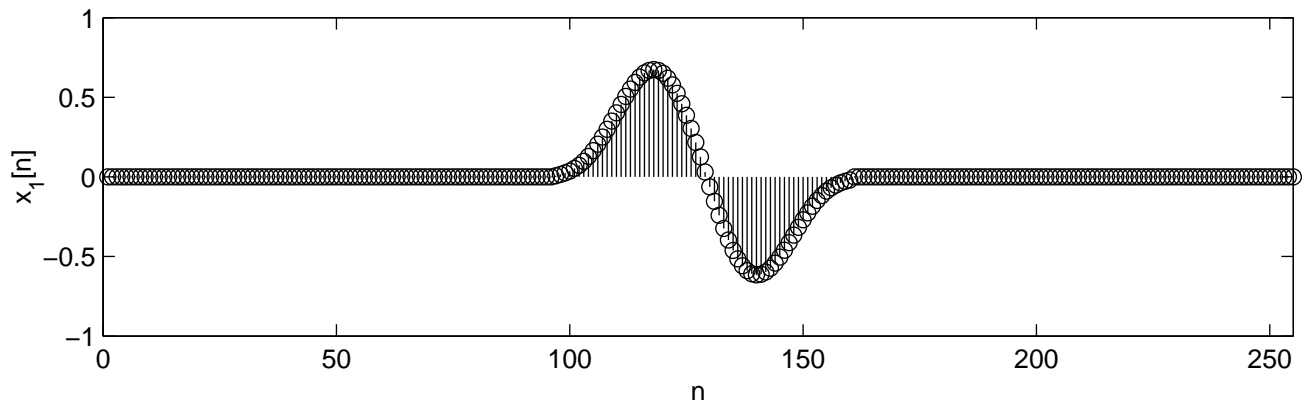
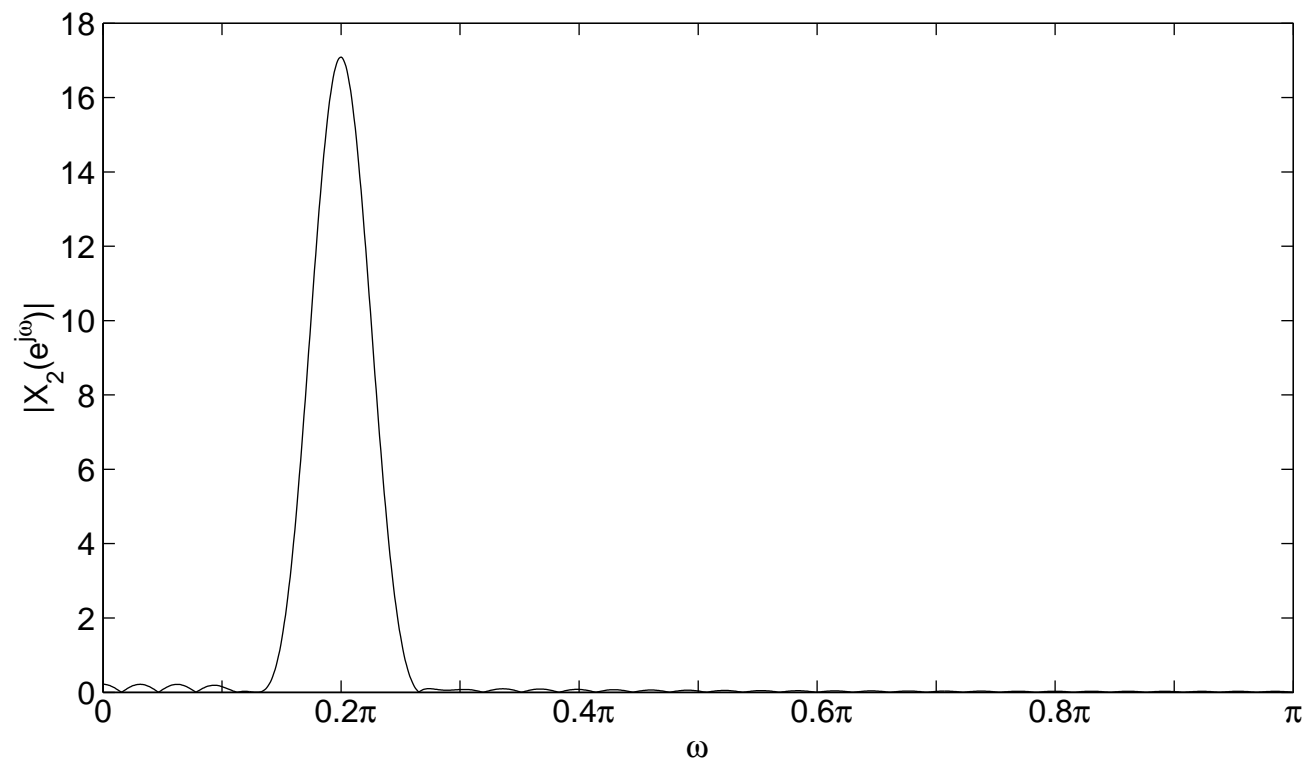
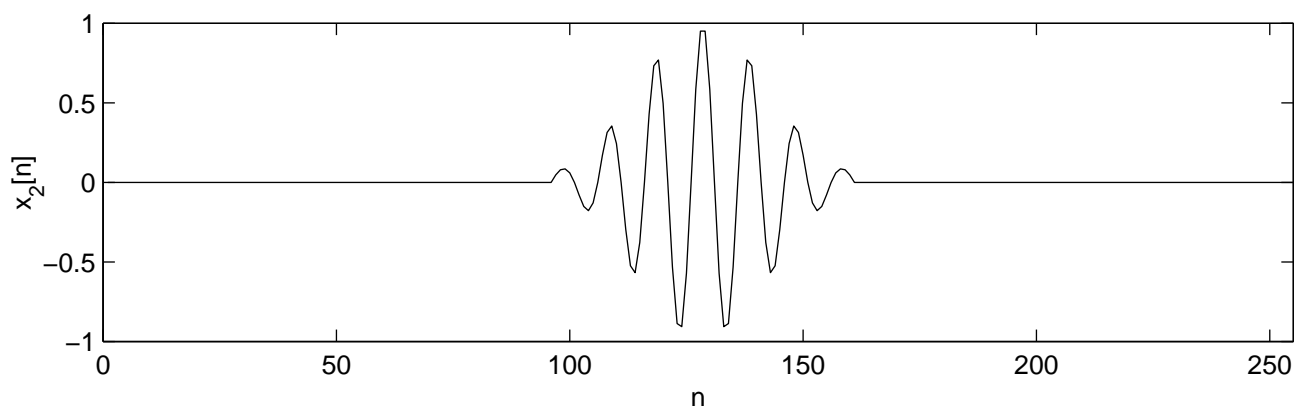
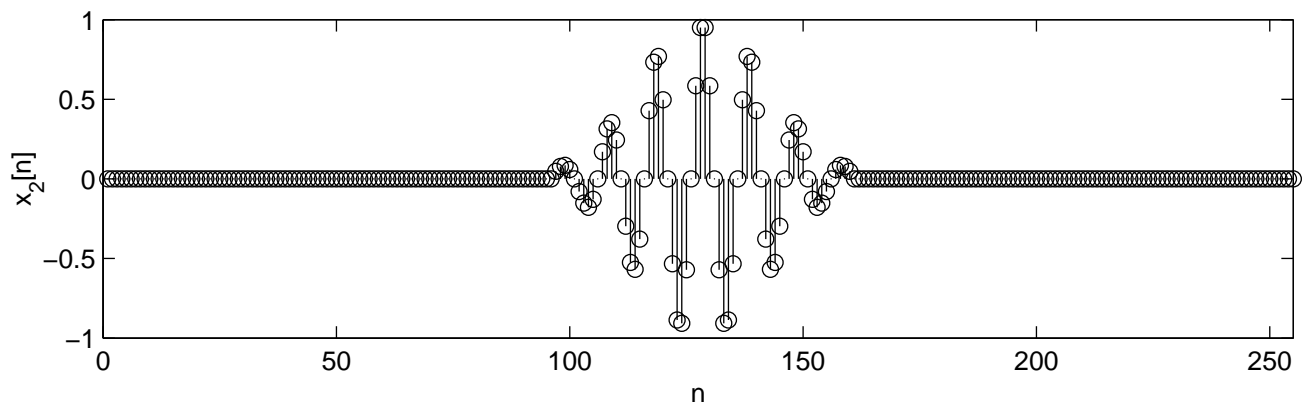


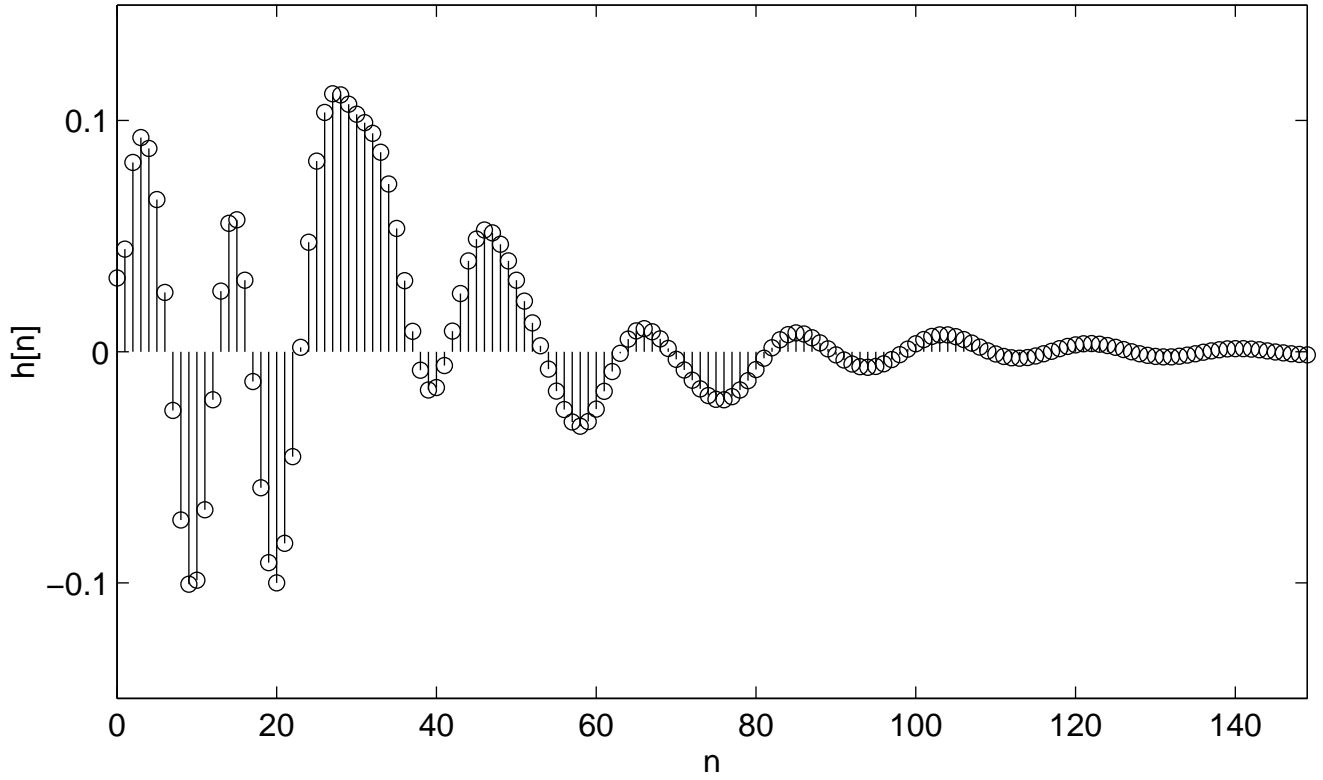
Signal  $x_1[n]$



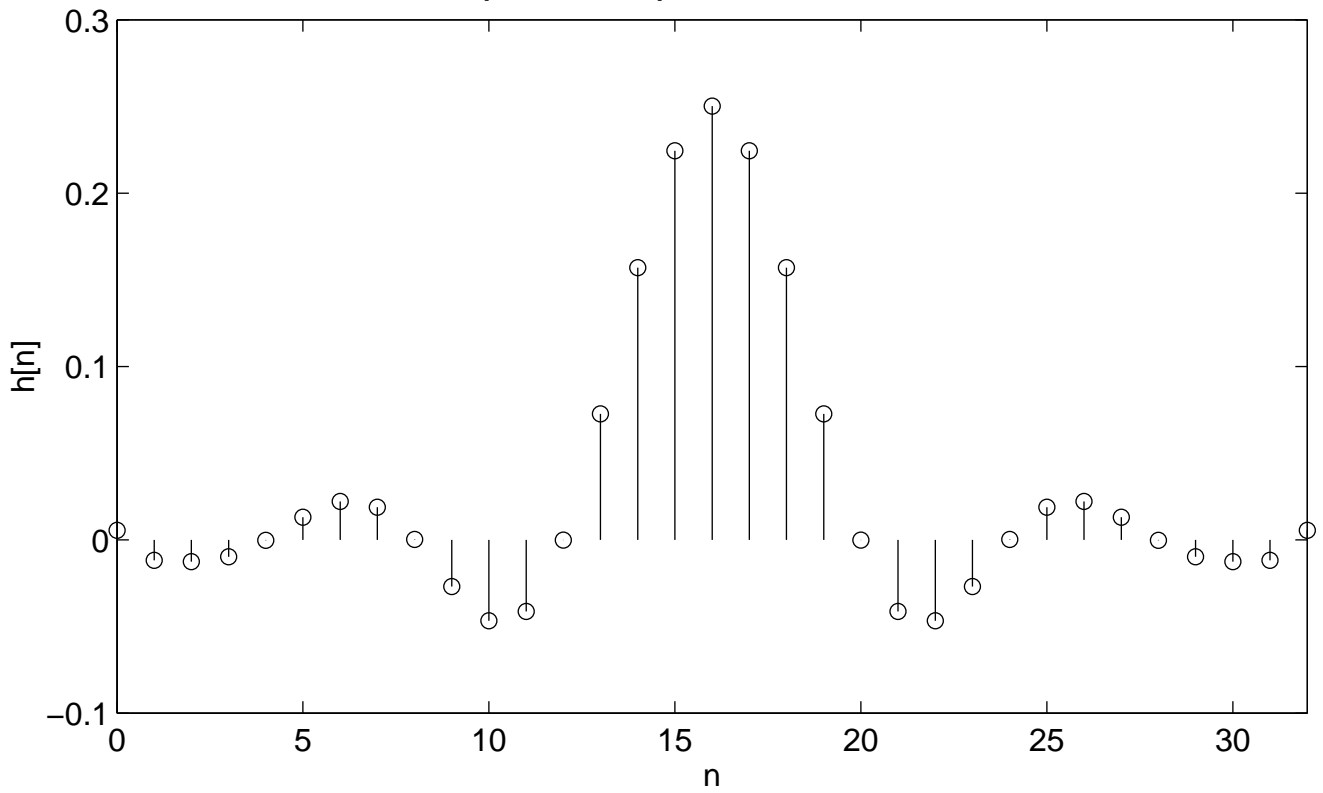
Signal  $x_2[n]$



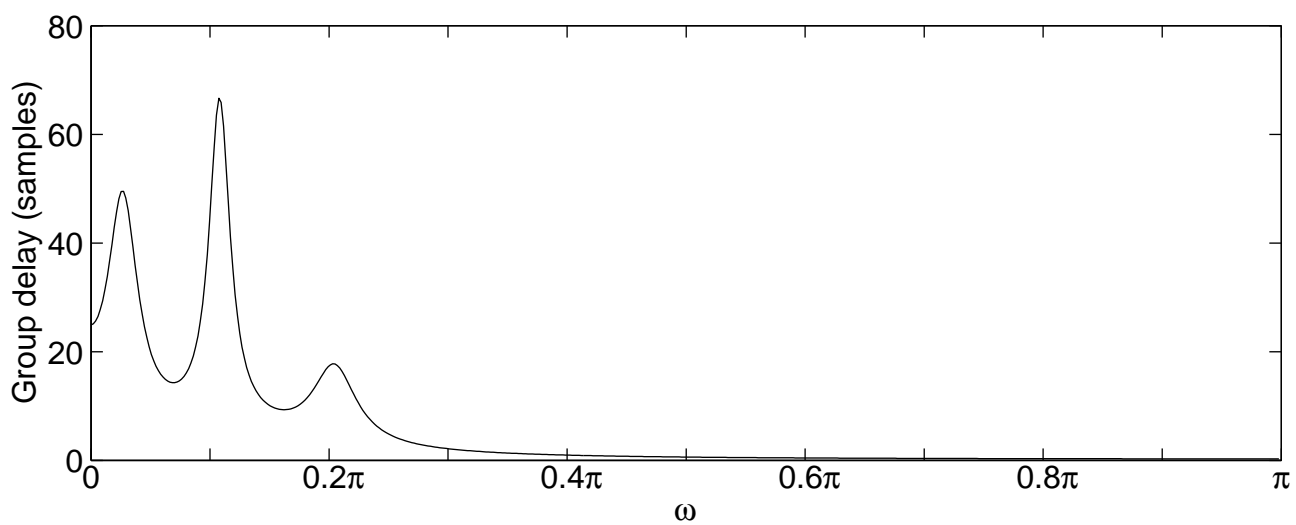
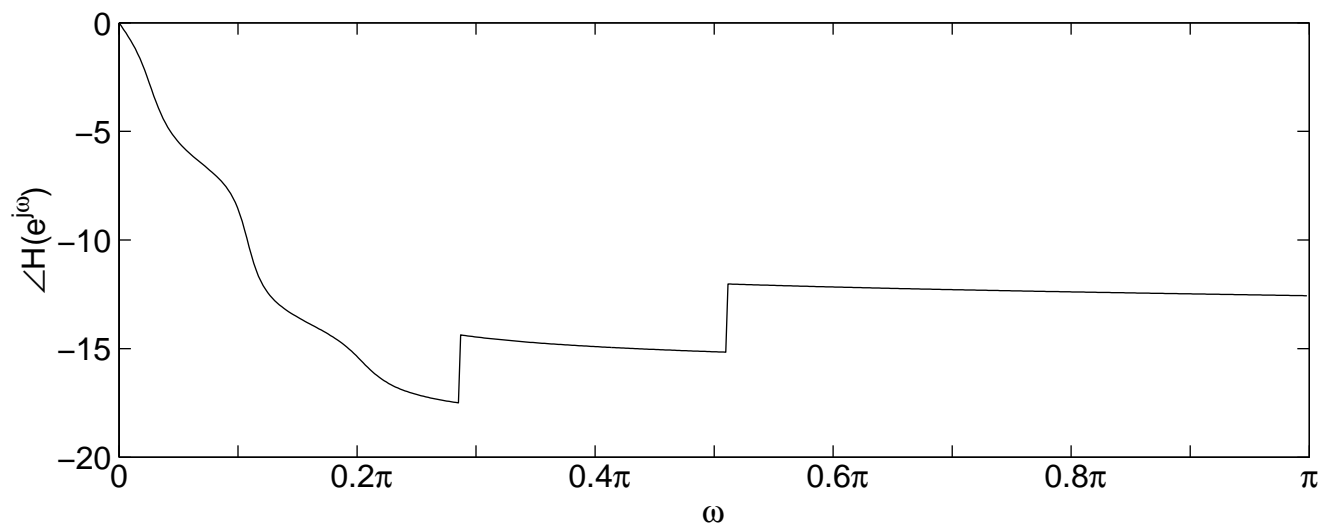
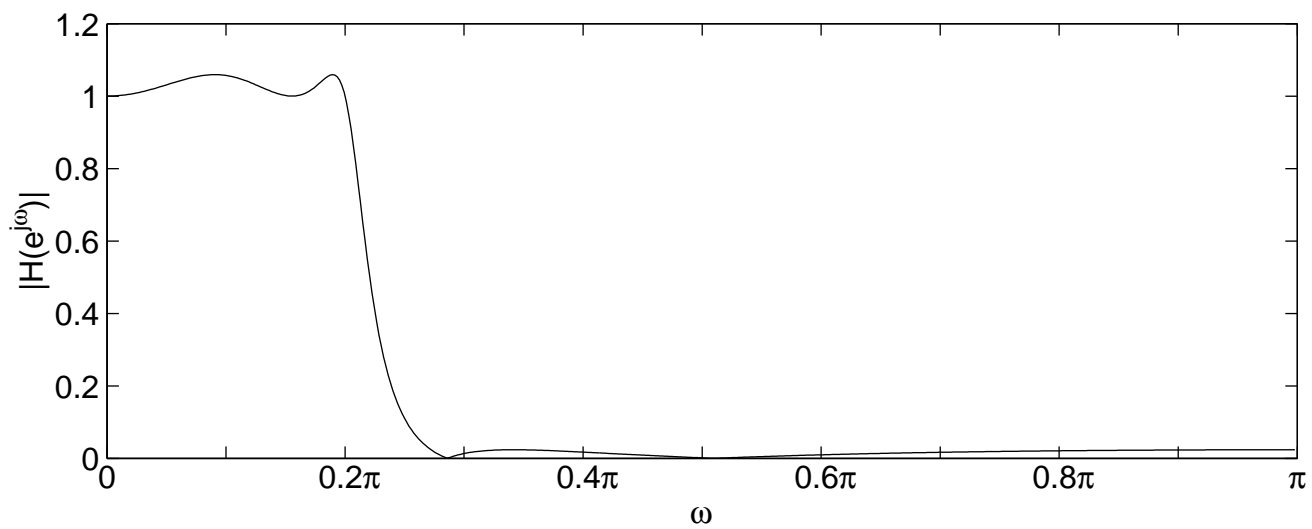
### Impulse response of IIR filter



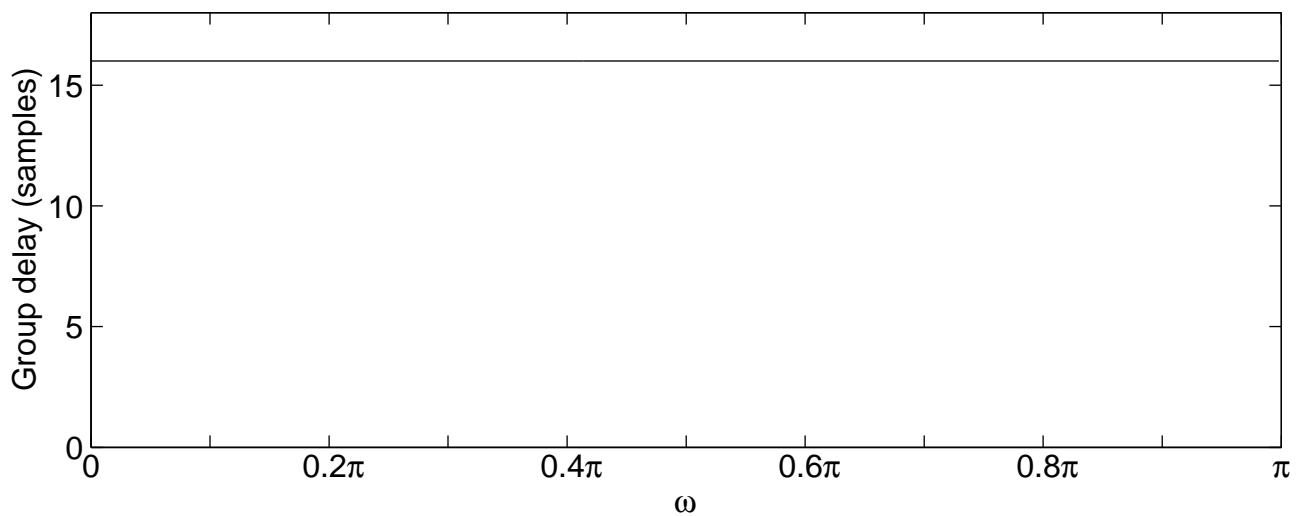
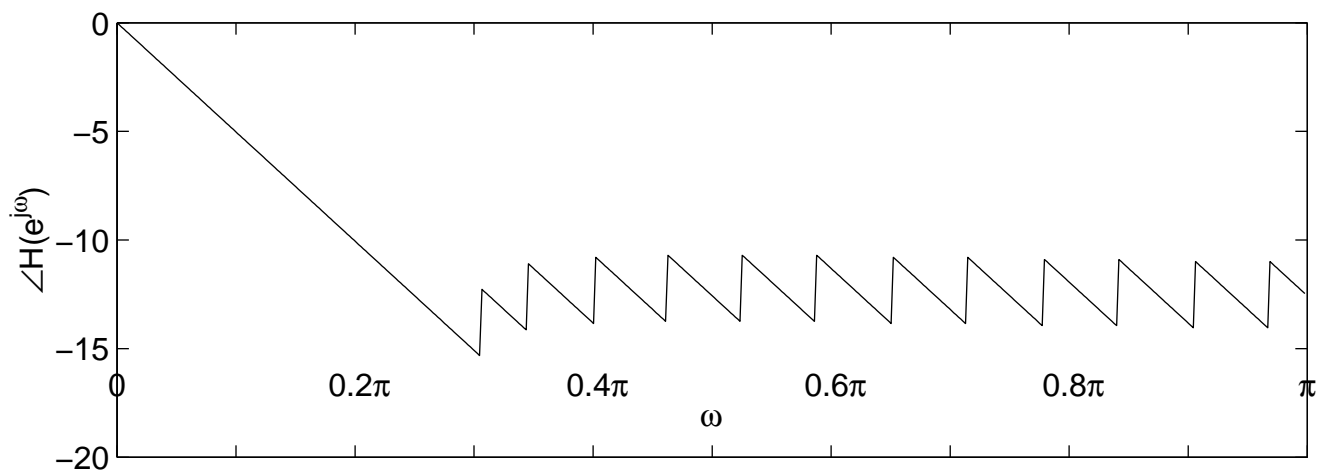
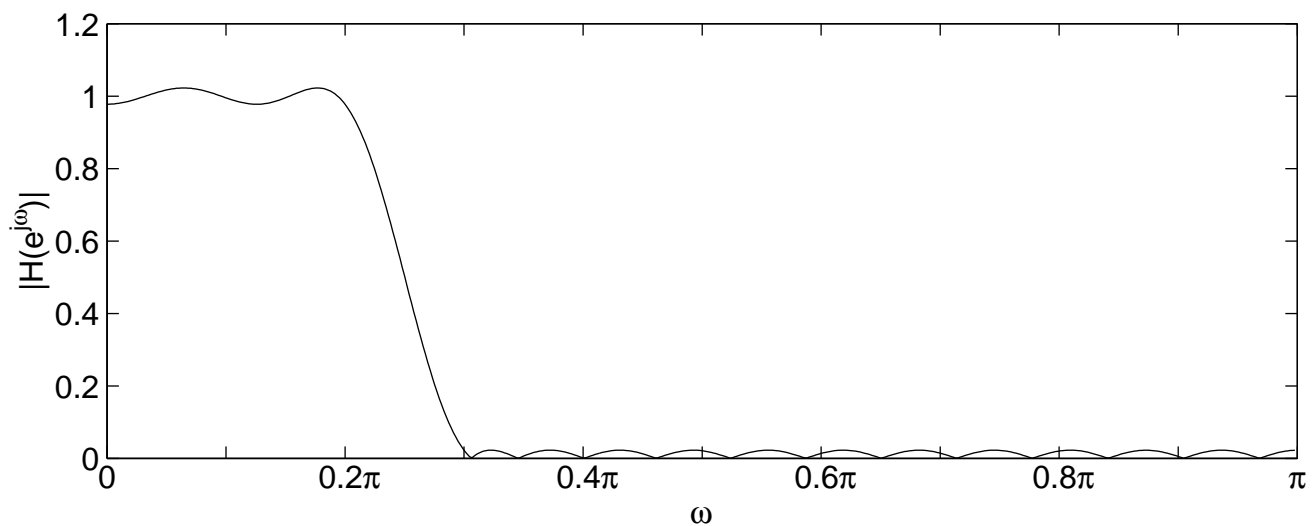
### Impulse response of FIR filter



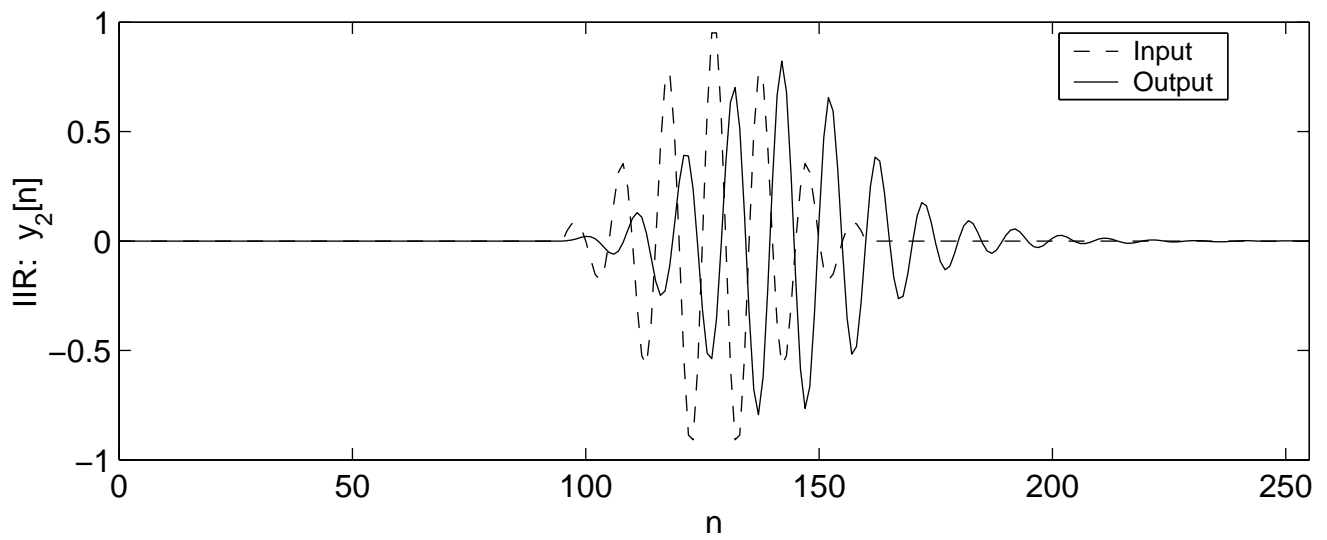
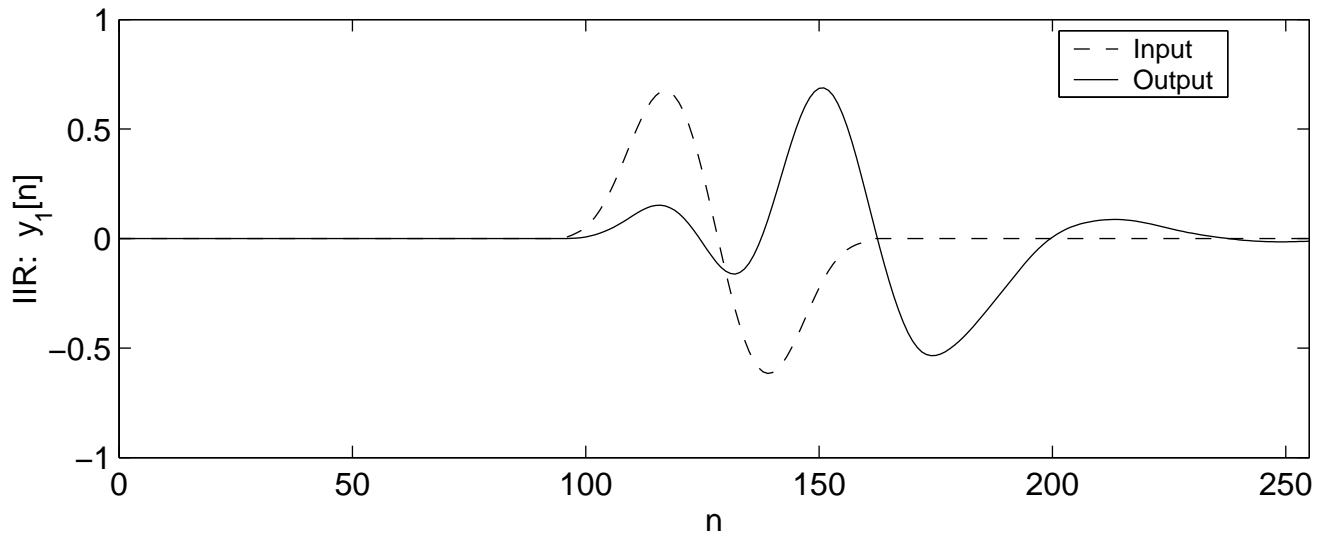
# IIR Filter Characteristics



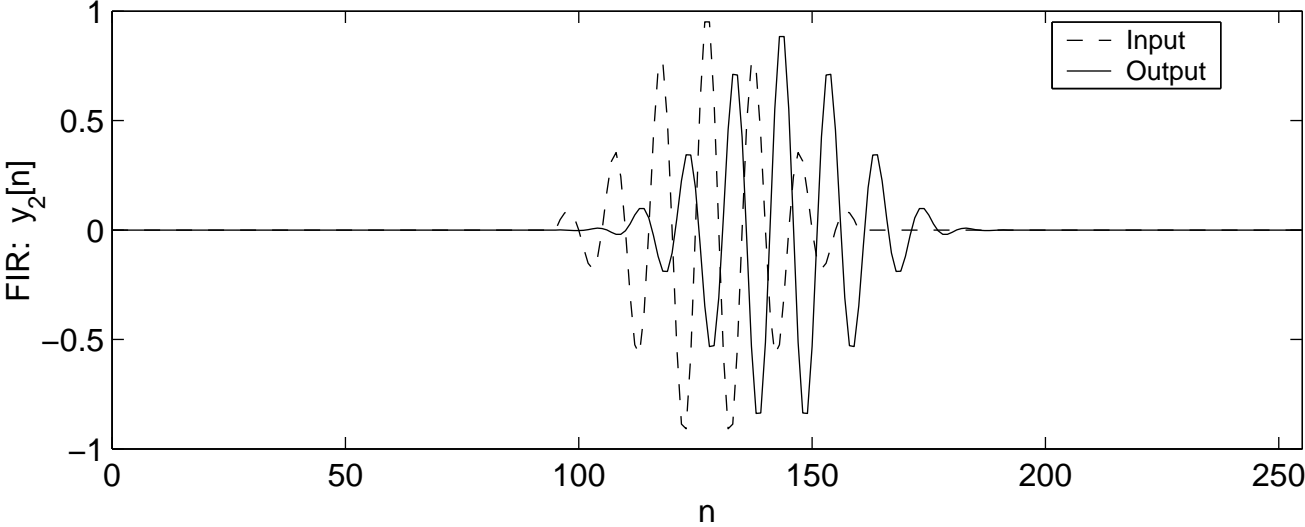
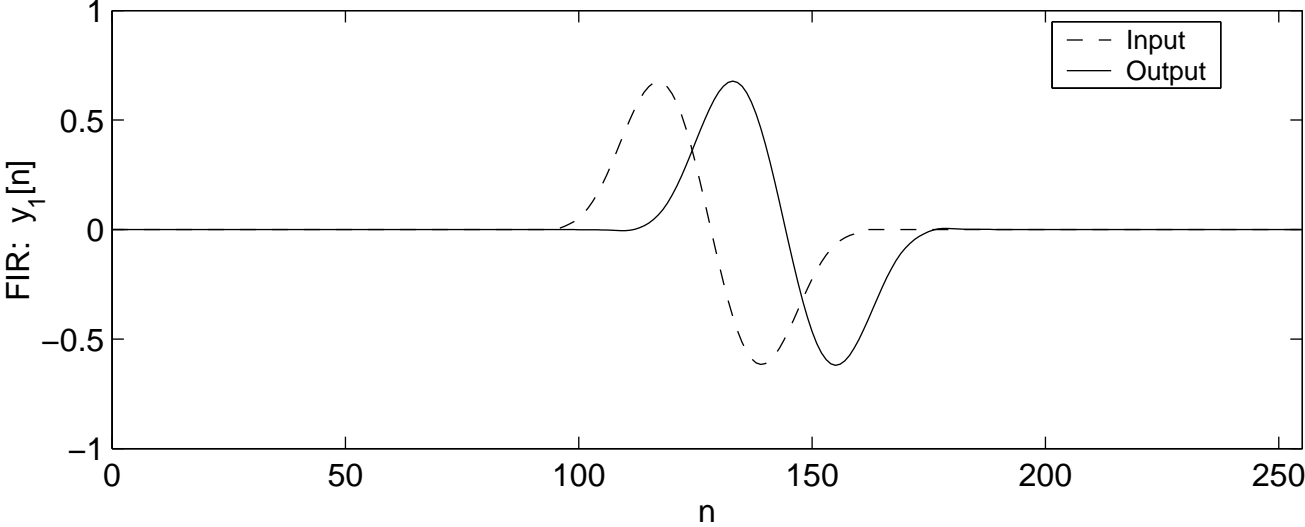
# FIR Filter Characteristics



Output of IIR filter



Output of FIR filter



# Example of effects of non-constant group delay

Short input pulse

